

इंटरनेट

मानक

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“जानने का अधिकार, जीने का अधिकार”

Mazdoor Kisan Shakti Sangathan

“The Right to Information, The Right to Live”

“पुराने को छोड़ नये के तरफ”

Jawaharlal Nehru

“Step Out From the Old to the New”

IS 11672 (1986): Tungsten carbide buttons and inserts for use in Down-the-hole (DTH) bits [MED 21: Diamond Core and Waterwell Drilling]



“ज्ञान से एक नये भारत का निर्माण”

Satyanarayan Gangaram Pitroda

“Invent a New India Using Knowledge”



“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”

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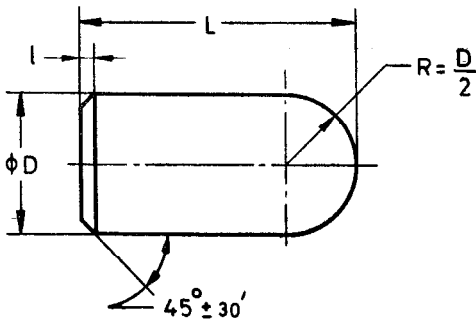
Indian Standard

SPECIFICATION FOR
TUNGSTEN CARBIDE BUTTONS AND INSERTS
FOR USE IN DOWN-THE-HOLE (DTH) BITS

1. **Scope** — Lays down the requirements for tungsten carbide buttons and inserts used in the manufacture of drilling bits for down-the-hole (DTH) drilling method.

2. **Dimensions**

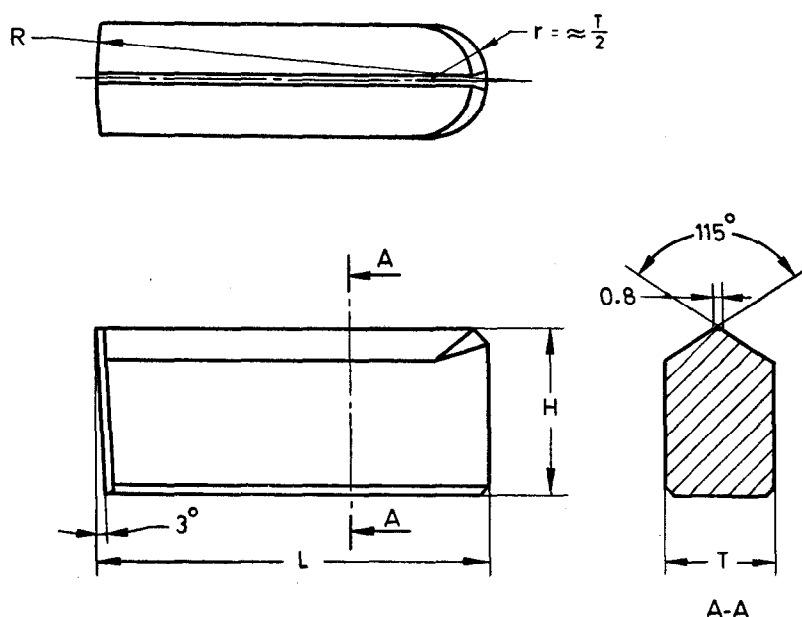
2.1 *Buttons*



All dimensions in millimetres.

Diameter, <i>D</i>		$\begin{smallmatrix} +1 \\ 0 \end{smallmatrix}$	Length, <i>L</i>	
Nominal	Tolerance		Nominal	Tolerance
10	$\begin{smallmatrix} +0.6 \\ +0.3 \end{smallmatrix}$	1.5	15	$\begin{smallmatrix} +0.5 \\ 0 \end{smallmatrix}$
12	$\begin{smallmatrix} +0.5 \\ +0.2 \end{smallmatrix}$	1.5	20	$\begin{smallmatrix} +0.5 \\ 0 \end{smallmatrix}$
12	$\begin{smallmatrix} +0.6 \\ +0.2 \end{smallmatrix}$	1.5	25	$\begin{smallmatrix} +0.8 \\ 0 \end{smallmatrix}$
12.7	$\begin{smallmatrix} +0.6 \\ +2.2 \end{smallmatrix}$	1.5	25	$\begin{smallmatrix} +0.8 \\ 0 \end{smallmatrix}$
16	$\begin{smallmatrix} +0.6 \\ +0.3 \end{smallmatrix}$	1.5	24	$\begin{smallmatrix} +0.8 \\ 0 \end{smallmatrix}$
16	$\begin{smallmatrix} +0.6 \\ +0.2 \end{smallmatrix}$	2.5	32	$\begin{smallmatrix} +0.8 \\ 0 \end{smallmatrix}$
16.5	$\begin{smallmatrix} +0.6 \\ +0.2 \end{smallmatrix}$	2.5	33	$\begin{smallmatrix} +0.8 \\ 0 \end{smallmatrix}$

2.2 Inserts



All dimensions in millimetres.

L		H		T +0.6 +0.2	R
Nominal	Tolerance	Nominal	Tolerance		
45	+0.5 0	19	+0.2 -0.3	12.7	51
48	+0.5 0	19	+0.2 -0.3	12.7	58
58	+0.8 0	47	+0.2 -0.4	25	76

3. Material — Shall conform to IS : 4005-1967 'Tungsten carbide for mining tools'. Depending upon the usage the grade of material used shall be subject to agreement between the purchaser and the manufacturer.

4. Designation — A button made of T grade tungsten carbide (see IS : 4005-1967) having nominal diameter $D = 12$ mm and nominal length $L = 25$ mm conforming to this standard shall be designated as:

Button T 12 × 25 IS : 11672

5. Packing — The buttons shall be packed in plastic containers. Each plastic container shall contain 10 numbers of buttons of 10, 12 or 12.7 mm diameter or shall contain five numbers of buttons of 16 or 16.5 mm diameter. Inserts shall also be packed in plastic containers.

6. Marking — Each button/insert shall be marked with manufacturer's identification mark, grade of tungsten carbide, diameter and length of the button/insert on its diameter/thickness.

6.1 ISI Certification Marking — Details available with Indian Standards Institution.

EXPLANATORY NOTE

Drilling bits play an important role in the drilling operation and so the buttons and inserts for drilling bits.

For preparation of this standard experience of the industry in the field has been the basis.